What is claimed is:

1. An electric injection molding machine comprising:

an electric injection mechanism for injecting a molding material into a mold by a drive force of an electric motor,

a servo control means for controlling said injection motor so that an injection speed follows an injection speed reference based on predetermined molding conditions, and

a compensating means for compensating said injection speed reference based on characteristics of a hydraulic drive system so that fluctuation characteristics of the injection speed with respect to the injection pressure when controlling the drive of said electric injection mechanism according to said molding conditions approximate the fluctuation characteristics of the injection speed with respect to the injection pressure in a hydraulic injection mechanism for injecting a molding material into a mold by the hydraulic drive system.

2. An electric injection molding machine as set forth in claim 1, further comprising:

an injection pressure detector for detecting an injection pressure, the compensating means compensating said injection speed reference based on injection pressure detected by said injection pressure detector.

3. An electric injection molding machine as set forth in claim 2, wherein said compensating means comprises

a deceleration calculation unit for calculating a deceleration of injection speed estimated from a detected injection pressure and/or a characteristic of said hydraulic drive system with respect to a change per unit time of the same and

an reference compensation unit for compensating said injection speed reference by the calculated deceleration of the injection speed.

4. An electric injection molding machine as set forth in claim 3, wherein

said deceleration calculation unit calculates the deceleration of said injection speed by a deceleration calculation equation for quantizing the deceleration of the injection speed provided for each factor defining the characteristic of change of the injection speed with respect to the injection pressure of the hydraulic drive system and

said reference compensation unit compensates said injection speed reference by the detected deceleration for every factor.

5. A method for controlling the injection of an electric injection molding machine comprising:

a control step for servo control of a drive motor so that an electric injection mechanism for injecting a molding material into a mold by a drive force of an electric motor follows an injection speed reference based on predetermined molding conditions and

a compensation step for compensating said injection speed reference based on characteristics of a hydraulic drive system so that fluctuation characteristics of the injection speed with respect to the injection pressure generated in said electric injection mechanism during servo control of the electric motor approximate the fluctuation characteristics of the injection speed with respect to the injection pressure in a hydraulic injection mechanism for injecting a molding material into a mold by the hydraulic drive system.

6. A method for controlling the injection of an electric injection molding machine as set forth in claim 5, wherein

said compensation step comprises a pressure detection step for detecting an injection pressure and

compensates said injection speed reference based on injection pressure detected by said detected injection pressure.

7. A method for controlling the injection of an electric injection molding machine as set forth in claim 6, wherein

said compensation step further comprises a deceleration calculation step for calculating a deceleration of injection speed estimated from a detected injection pressure and/or a characteristic of said hydraulic drive system with respect to a change per unit time of the same and

compensates said injection speed reference by the calculated deceleration of the injection speed.

8. A method for controlling the injection of an electric injection molding machine as set forth in claim 7, wherein

said deceleration calculation step further comprises the step of calculating the deceleration of said injection speed by a deceleration calculation equation for quantizing the deceleration of the injection speed provided for each factor defining the characteristic of change of the injection speed with respect to the injection pressure of the hydraulic drive system and

compensates said injection speed reference by the detected deceleration for every factor.